



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re United States Letters	)	Group Art Unit: 3747
	)	
Patent No.: 6,988,480	)	Examiner: Jason Benton
	)	
Granted: January 24, 2006	)	
	)	
Inventor: FRANK G. HUGHES, ET AL.	)	
	)	
Title: CYLINDER BLOCK FOR AN	)	
INTERNAL COMBUSTION ENGINE	)	
HAVING A LOCALLY THICKENED	)	
END WALL	)	
	)	
Attorney Docket No.: 00-674	)	

Peoria, Illinois 61629-6490  
May 18, 2006

Attention Certificate of Corrections Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR 1.323

Sir:

On May 18, 2006, a Petition Request under 37 CFR 3.81(b) was submitted to the Petitions Branch requesting a correction regarding the incorrect Assignee designation on form PTOL-85B submitted with payment of the Issue Fee, thus appearing incorrectly as Caterpillar Inc. on the front of U.S. Patent 6,988,480. Upon grant of said Petition, the Petitions Branch was requested to forward the REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR 1.323 to the Certificate of Corrections Branch.


This is to request the issuance of a Certificate of Correction under 35 U.S.C. 255. Upon reviewing the above-identified patent, the Agent of Record noted an error that should be corrected. Please charge the required fee to Deposit Account 03-1129.

05/23/2006 MAHMED1 00000046 031129 6988480  
01 FC:1811 100.00 DA

**BEST AVAILABLE COPY**

Transmitted herewith are two copies of PTO-1050 containing the text of the desired corrections.

Respectfully submitted,

  
\_\_\_\_\_  
Jeff A. Greene  
Registration No. 45,756  
Caterpillar Inc.

Telephone: (309) 675-1056  
JAG:vlm  
Enc.

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO.: 6,988,480  
DATED : January 24, 2006  
INVENTOR(S) : FRANK G. HUGHES, ET AL.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Please make the following corrections to the cover sheet of patent as follows:

**Assignee: delete "Caterpillar Inc., Peoria, IL (US)" and insert --Perkins Engines Company Limited, Peterborough, United Kingdom--**

**MAILING ADDRESS OF SENDER:**

Caterpillar Inc.  
100 NE Adams St.  
Peoria, IL 61629-6490

**PATENT NO.** 6,988,480

No. of additional copies



This collection of information is required by 37 CFR 1.322, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*



DWH/CPI/DJS/CHW

UNITED STATES PATENT AND TRADEMARK OFFICE

8350-0674

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 15, 2005

FINNEGAN, HENDERSON, FARABOW, GARRETT &  
LLP  
901 NEW YORK AVENUE, NW  
WASHINGTON, DC 20001-4413

PTAS

RECEIVED



\*102866432A\*

APR 21 2005

FINNEGAN, HENDERSON, FARABOW,  
GARRETT AND O'NEILL, LLP  
UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF  
THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS  
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER  
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE  
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA  
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD  
FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY  
CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,  
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/20/2004

REEL/FRAME: 015904/0308  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 08350.0674

ASSIGNOR:  
HUGHES, FRANK G.

DOC DATE: 10/19/2004

ASSIGNOR:  
JACKSON, RICHARD

DOC DATE: 10/05/2004

ASSIGNOR:  
PAUL, HOWARD J.

DOC DATE: 10/12/2004

ASSIGNEE:  
PERKINS ENGINES COMPANY LIMITED  
FRANK PERKINS WAY  
EASTFIELD V.F.R. BUILDING  
PETERBOROUGH, UNITED KINGDOM

PE1 5NA

2/21/05  
4/21/05

015904/0308 PAGE 2

SERIAL NUMBER: 10662807

FILING DATE: 09/16/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: CYLINDER BLOCK FOR AN INTERNAL COMBUSTION ENGINE HAVING A LOCALLY  
THICKENED END WALL

TONYA LEE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

FORM PTO-1595  
1-31-92

10-25-2004

10/20/04



U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08350.0674  
Attorney Customer Number: 22,852

ATTN. BOX ASSIGNMENTS

To the Honorable Commissioner of Patents  
Please record the attached original document.

102866432

1. Name of conveying party(ies):

- 1) Frank G. Hughes
- 2) Richard Jackson
- 3) Howard J. Paul

OCT 20 2004

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other:

Execution Date: 1) October 19, 2004;  
2) October 5, 2004;  
3) October 12, 2004

2. Name and address of receiving party(ies):

Name: Perkins Engines Company Limited  
Frank Perkins Way  
Eastfield, V.F.R. Building  
Peterborough, United Kingdom  
PE1 5NA

Additional name(s) & Address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application:

A. Patent Application Number(s):

10/662,807

B. Patent Number(s):

Additional numbers attached?

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Christopher P. Isaac

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT  
& DUNNER, L.L.P.

Street Address: 1300 I Street, N.W.

City: Washington, D.C.

State: Zip: 20005-3315

6. Total number of applications and registrations involved:  
1

7. Total fee (37 CFR 3.41): \$40

- ☒ Enclosed (Please charge deficiency to deposit account)
- ☐ Authorized to be charged to deposit account

8. Deposit Account No.: 06-0916

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

10/22/2004 DBYRNE 00000066 10662807

01 FC:8021

40.00 CP

Dustin T. Johnson  
Reg. No. 47,684

Signature

October 20, 2004  
Date

Total number of pages including cover sheet, attachments and documents: 4

SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 08350.0674  
Client Ref. No. 00-674

### ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

**CYLINDER BLOCK FOR AN INTERNAL COMBUSTION ENGINE  
HAVING A LOCALLY THICKENED END WALL**

for which We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on September 16, 2003 (Serial No. 10/662,807); and

WHEREAS, Perkins Engines Company Limited, organized and operating under the virtue of the laws of the United Kingdom, having a place of business at Frank Perkins Way, Eastfield, V.F.R. Building, Peterborough, United Kingdom PE1 5NA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional application Serial No. 60/411,510, filed September 16, 2002, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;


AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

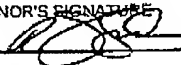
IN TESTIMONY WHEREOF, We have hereunto set our hands.


1. FULL NAME OF SOLE OR FIRST ASSIGNOR Frank G. Hughes	ASSIGNOR'S SIGNATURE <i>F. G. Hughes</i>	DATE 19.10.2004
ADDRESS 1, Argyll Way, PE9 2XQ Stamford, United Kingdom		CITIZENSHIP United Kingdom


SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 08350.0674  
Client Ref. No. 00-674

1. WITNESS NAME <b>MACIEJ BEDKOWSKI</b>	WITNESS SIGNATURE 	DATE <b>19/10/04</b>
ADDRESS <b>28 DORCHESTER CRESCENT, PETERBOROUGH PE1 4RP</b>		CITIZENSHIP <b>UK</b>

2. WITNESS NAME <b>Eric Siecker</b>	WITNESS SIGNATURE	DATE <b>19/10/04</b>
ADDRESS <b>39 Church Walk, Upton, Peterborough, UK</b>		CITIZENSHIP <b>UK</b>


2. FULL NAME OF SECOND ASSIGNOR, IF ANY <b>Richard Jackson</b>	ASSIGNOR'S SIGNATURE 	DATE <b>5/10/04</b> RJ
ADDRESS <b>The Old Parsonage, Attleborough Road, Great Ellingham, Attleborough, Norfolk, NR17 1G, United Kingdom</b>		CITIZENSHIP <b>United Kingdom</b>


1. WITNESS NAME <b>PAUL SPINKS</b>	WITNESS SIGNATURE 	DATE <b>5/10/04</b>
ADDRESS <b>13 SNOWS HILL, CHEDGRAVE, NORWICH, NORFOLK NR14 6HY UNITED KINGDOM</b>		CITIZENSHIP <b>UK.</b>

2. WITNESS NAME <b>MARK COLEMAN</b>	WITNESS SIGNATURE 	DATE <b>5/10/04</b>
ADDRESS <b>108 ROSEBURY ROAD, NORWICH, NORFOLK, NR3 3AB.</b>		CITIZENSHIP <b>U.K.</b>

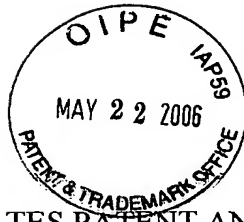


SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 08350.0674  
Client Ref. No. 00-674

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Howard J. Paul	ASSIGNOR'S SIGNATURE 	DATE 12-10-04
ADDRESS 88, Lonsdale Road, PE9 2SG Stamford, United Kingdom		CITIZENSHIP United Kingdom

1. WITNESS NAME STANLEY GOODACRE	WITNESS SIGNATURE 	DATE 12-10-04
ADDRESS THE LODGE, BAINTON RD, BARNACK, STAMFORD, LINES PE9 3DX		CITIZENSHIP U.K.

2. WITNESS NAME JESSIE GOODACRE	WITNESS SIGNATURE J.M. Goodacre	DATE 12/10/04
ADDRESS THE LODGE, BAINTON ROAD, BARNACK, STAMFORD, LINES PE9 3DX		CITIZENSHIP U.K.



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re United States Letters	)	Group Art Unit: 3747
	)	
Patent No.: 6,988,480	)	Examiner: Jason Benton
	)	
Granted: January 24, 2006	)	
	)	
Inventor: FRANK G. HUGHES, ET AL.	)	
	)	
Title: CYLINDER BLOCK FOR AN	)	
INTERNAL COMBUSTION ENGINE	)	
HAVING A LOCALLY THICKENED	)	
END WALL	)	
	)	
Attorney Docket No.: 00-674	)	

Peoria, Illinois 61629-6490  
May 18, 2006

Mail Stop Petitions  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

PETITION REQUEST UNDER 37 CFR 3.81(b)

Sir:

On October 27, 2005, Applicant submitted form PTOL-85B with payment of the Issue Fee. On form PTOL-85B, Applicant inadvertently indicated the incorrect Name of Assignee and Residence. By this Petition, Applicant is requesting to correct Applicant's error. The Name of Assignee (Perkins Engines Company Limited) and Residence (Peterborough, United Kingdom) is the Assignee of Record as noted on the enclosed copy of the Notice of Recordation of Assignment Document, Reel and Frame 015904/0308, recorded on October 20, 2004.

It is respectfully requested that the Petition be granted and that the enclosed REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR 1.323 be forwarded to the Certificates of Correction Branch.

Enclosed herewith are two copies of a fee transmittal sheet to provide for the appropriate fee of \$130.00 for the Petition Request.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Jeff A. Greene", is written over a horizontal line.

Jeff A. Greene  
Registration No. 45,756  
Caterpillar Inc.

Telephone: (309) 675-1056  
JAG:vlm  
Enc.



DWH/CPI/DJS/CHW

UNITED STATES PATENT AND TRADEMARK OFFICE

8350-0674

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

APRIL 15, 2005

FINNEGAN, HENDERSON, FARABOW, GARRETT &  
LLP  
901 NEW YORK AVENUE, NW  
WASHINGTON, DC 20001-4413

PTAS

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\*102866432A\*

APR 21 2005

FINNEGAN, HENDERSON, FARABOW,  
GARRETT AND O'CONNOR, LLP  
UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS  
AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER  
REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE  
INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA  
PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD  
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CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.  
PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE,  
ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY,  
SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/20/2004

REEL/FRAME: 015904/0308  
NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: 08350.0674

ASSIGNOR:  
HUGHES, FRANK G.

DOC DATE: 10/19/2004

ASSIGNOR:  
JACKSON, RICHARD

DOC DATE: 10/05/2004

ASSIGNOR:  
PAUL, HOWARD J.

DOC DATE: 10/12/2004

ASSIGNEE:  
PERKINS ENGINES COMPANY LIMITED  
FRANK PERKINS WAY  
EASTFIELD V.F.R. BUILDING  
PETERBOROUGH, UNITED KINGDOM

PE1 5NA

2/21/05  
4/21/05  
JF

015904/0308 PAGE 2

SERIAL NUMBER: 10662807

FILING DATE: 09/16/2003

PATENT NUMBER:

ISSUE DATE:

TITLE: CYLINDER BLOCK FOR AN INTERNAL COMBUSTION ENGINE HAVING A LOCALLY  
THICKENED END WALL

TONYA LEE, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

FORM PTO-1595  
1-31-92

10-25-2004

U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08350.0674  
Attorney Customer Number: 22,852

ATTN. BOX ASSIGNMENTS

To the Honorable Commissioner of Pa  
Please record the attached original do



102866432

1. Name of conveying party(ies):

- 1) Frank G. Hughes
- 2) Richard Jackson
- 3) Howard J. Paul

OCT 20 2004

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other:

Execution Date: 1) October 19, 2004;  
2) October 5, 2004;  
3) October 12, 2004

2. Name and address of receiving party(ies):

Name: Perkins Engines Company Limited  
Frank Perkins Way  
Eastfield, V.F.R. Building  
Peterborough, United Kingdom  
PE1 5NA

Additional name(s) & Address(es) attached?

☐ Yes ☒ No

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application:

A. Patent Application Number(s):

10/662,807

B. Patent Number(s):

Additional numbers attached?

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Christopher P. Isaac

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT  
& DUNNER, L.L.P.

Street Address: 1300 I Street, N.W.

City: Washington, D.C.

State: Zip: 20005-3315

6. Total number of applications and registrations involved:  
1

7. Total fee (37 CFR 3.41): \$40

- ☒ Enclosed (Please charge deficiency to deposit account)  
☐ Authorized to be charged to deposit account

8. Deposit Account No.: 06-0916

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

10/22/2004 DBYRNE 00000066 10662807

01 FC:8021

40.00 DP

Dustin T. Johnson  
Reg. No. 47,684

Signature

October 20, 2004  
Date

Total number of pages including cover sheet, attachments and documents: 4

SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 08350.0674  
Client Ref. No. 00-674

### ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

**CYLINDER BLOCK FOR AN INTERNAL COMBUSTION ENGINE  
HAVING A LOCALLY THICKENED END WALL**

for which We executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on September 16, 2003 (Serial No. 10/662,807); and

WHEREAS, Perkins Engines Company Limited, organized and operating under the virtue of the laws of the United Kingdom, having a place of business at Frank Perkins Way, Eastfield, V.F.R. Building, Peterborough, United Kingdom PE1 5NA (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our entire right, title, and interest in and to this invention, provisional application Serial No. 60/411,510, filed September 16, 2002, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;


AND, I/WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

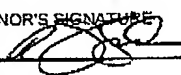
1. FULL NAME OF SOLE OR FIRST ASSIGNOR Frank G. Hughes	ASSIGNOR'S SIGNATURE <i>F. G. Hughes</i>	DATE 19.10.2004
ADDRESS 1, Argyll Way, PE9 2XQ Stamford, United Kingdom		CITIZENSHIP United Kingdom

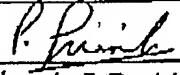
Listing of Inventors Continued on Page 2 hereof ☒ Yes ☐ No


SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 08350.0674  
Client Ref. No. 00-674

1. WITNESS NAME <b>MACIEJ BEDKOWSKI</b>	WITNESS SIGNATURE 	DATE <b>19/10/04</b>
ADDRESS <b>28 DORCHESTER CRESCENT, PETERBOROUGH PE1 4RP</b>		CITIZENSHIP <b>UK</b>

2. WITNESS NAME <b>Eric Siecker</b>	WITNESS SIGNATURE	DATE <b>19/10/04</b>
ADDRESS <b>39 Church Walk, Upton, Peterborough, UK</b>		CITIZENSHIP <b>UK</b>

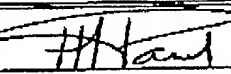
2. FULL NAME OF SECOND ASSIGNOR, IF ANY <b>Richard Jackson</b>	ASSIGNOR'S SIGNATURE 	DATE <b>5/10/04</b> <b>RJ</b>
ADDRESS <b>The Old Parsonage, Attleborough Road, Great Ellingham, Attleborough, Norfolk, NR17 1G, United Kingdom</b>		CITIZENSHIP <b>United Kingdom</b>

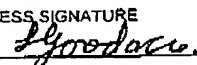
1. WITNESS NAME <b>PAUL SPINKS</b>	WITNESS SIGNATURE 	DATE <b>5/10/04</b>
ADDRESS <b>13 SNOWS HILL, CHEDGRAVE, NORWICH, NORFOLK NR14 6HY UNITED KINGDOM</b>		CITIZENSHIP <b>UK.</b>


2. WITNESS NAME <b>MARK COLEMAN</b>	WITNESS SIGNATURE 	DATE <b>5/10/04</b>
ADDRESS <b>108 ROSEBURY ROAD, NORWICH, NORFOLK, NR3 3AB.</b>		CITIZENSHIP <b>U.K.</b>



SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 08350.0674  
Client Ref. No. 00-674

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Howard J. Paul	ASSIGNOR'S SIGNATURE 	DATE 12-10-04
ADDRESS 96, Lonsdale Road, PE9 2SG Stamford, United Kingdom		CITIZENSHIP United Kingdom

1. WITNESS NAME STANLEY GOODACRE	WITNESS SIGNATURE 	DATE 12-10-04
ADDRESS THE LODGE, BAINTON RD, BARNACK, STAMFORD, Lincs PE9 3DX		CITIZENSHIP U.K.

2. WITNESS NAME JESSIE GOODACRE	WITNESS SIGNATURE 	DATE 12/10/04
ADDRESS THE LODGE, BAINTON ROAD, BARNACK, STAMFORD, Lincs PE9 3DX		CITIZENSHIP U.K.



PTO/SB/17 (05-03)  
Approved for use through 07/31/2006. OMB 0651-0032  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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# FEE TRANSMITTAL for FY 2003

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 130

## Complete if Known

Application Number	10/662,807
Filing Date	09/16/2003
First Named Inventor	Frank G. Hughes ET AL.
Examiner Name	Jason Benton
Art Unit	3747
Attorney Docket No.	00-674

## METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number: 03-1129

Deposit Account Name:

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☐ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

## FEE CALCULATION

### 1. BASIC FILING FEE

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code	Fee Code		
1001 790	2001 385	Utility filing fee	
1002 350	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 790	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			0

### 2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims: 20 -20\*\* = 0 x 50 = 0

Independent Claims: 3 -3\*\* = 0 x 200 = 0

Multiple Dependent Claims: 3

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code	Fee Code		
1202 18	2002 9	Claims in excess of 20	
1201 88	2001 43	Independent claims in excess of 3	
1203 290	2203 145	Multiple dependent claim, if not paid	
1204 88	2204 43	**Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	
SUBTOTAL (2)			0

\*\*or number previously paid, if greater; For Reissues, see above

## FEE CALCULATION (continued)

### 3. ADDITIONAL FEES

Large Entity	Small Entity	Fee Description	Fee Paid
Fee Code	Fee Code		
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 430	2252 210	Extension for reply within second month	
1253 980	2253 475	Extension for reply within third month	
1254 1,530	2254 740	Extension for reply within fourth month	
1255 2,080	2255 1,005	Extension for reply within fifth month	
1401 340	2401 165	Notice of Appeal	
1402 340	2402 165	Filing a brief in support of an appeal	
1403 300	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,370	2453 665	Petition to revive - unintentional	
1501 1,370	2501 665	Utility issue fee (or reissue)	
1502 490	2502 240	Design issue fee	
1503 660	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	130
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 790	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 790	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 790	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 130

## SUBMITTED BY

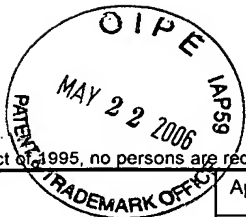
(Complete (if applicable) )

Name (Print/Type)	Jeff A. Greene	Registration No. (Attorney/Agent)	45,756	Telephone	(309) 675-1056
Signature		Date	05/18/2006		

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PTO/SB/21 (02-04)

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## TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

Application Number	10/662,807
Filing Date	09/16/2003
First Named Inventor	Frank G. Hughes ET AL.
Art Unit	3747
Examiner Name	Jason Benton
Attorney Docket Number	00-674

Total Number of Pages in This Submission

### ENCLOSURES (Check all that apply)

- |   |  |   |
|---|--|---|
| <input type="checkbox"/> Fee Transmittal Form<br><input type="checkbox"/> Fee Attached<br><input type="checkbox"/> Amendment/Reply<br><input type="checkbox"/> After Final<br><input type="checkbox"/> Affidavits/declaration(s)<br><input type="checkbox"/> Extension of Time Request<br><input type="checkbox"/> Express Abandonment Request<br><input type="checkbox"/> Information Disclosure Statement<br><input type="checkbox"/> Certified Copy of Priority Documents<br><input type="checkbox"/> Response to Missing Parts/Incomplete Application<br><input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment Papers (for an Application)<br><input type="checkbox"/> Drawing(s)<br><input type="checkbox"/> Licensing-related Papers<br><input type="checkbox"/> Petition<br><input type="checkbox"/> Petition to Convert to a Provisional Application<br><input type="checkbox"/> Power of Attorney, Revocation<br>Change of Correspondence Address<br><input type="checkbox"/> Terminal Disclaimer<br><input type="checkbox"/> Request for Refund<br><input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance communication to Technology Center (TC)<br><input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences<br><input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief)<br><input type="checkbox"/> Proprietary Information<br><input type="checkbox"/> Status Letter<br><input checked="" type="checkbox"/> Other Enclosures(s) (please Identify below):<br><br>Request for Certificate of Correction |
|---|--|---|

Remarks

### SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Jeff A. Greene, Registration No. 45,756
Signature	<i>Jeff A. Greene</i>
Date	May 18, 2006

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope address to:  
Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on this date: 05/18/2006

Typed or printed name Jeff A. Greene

Signature

*Jeff A. Greene*

Date

5/18/06

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